Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-07-23-07** **Date: 26-07-2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at Krishna Temple Roads in Ward No. 09 (Vidyaranyapura) Vidyaranyapura Sub Division.
Agency	:	Sri. Gopireddy, #03, 1st Cross, 1st main, Ramachandrappa layout, Veeranapalya, Arabic college (P), Bangalore-560045.
Customer's Reference	:	BBMP/EE/BTP/WO/55/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-07-2018
Sample ID No	:	2018-07-23-07 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	24-07-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	2.15%	–
2	Finess by Air permeablity method (m^2/kg,Min)	281.3	225m^2/kg, Min
3	Density (gm/cc)	3.12	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time (minutes)	165 minutes	Not less than 30 minutes
6	Final Setting time (minutes)	295 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method) (mm)	1.0mm	Not more than 10 mm

Note:

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All information furnished by Customer/Representative

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Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	**CP-2018-07-23-07** **Date: 21-08-2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at Krishna Temple Roads in Ward No. 09 (Vidyaranyapura) Vidyaranyapura Sub Division.
Agency	:	Sri. Gopireddy, #03, 1st Cross, 1st main, Ramachandrappa layout, Veeranapalya, Arabic college (P), Bangalore-560045.
Customer's Reference	:	BBMP/EE/BTP/WO/55/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-07-2018
Sample ID No	:	2018-07-23-07 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	24-07-2018
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results (N/mm^2)	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	57.0N/mm^2	Not less than 53 N/mm^2

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-07-23-07** **Date: 26-07-2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at Krishna Temple Roads in Ward No. 09 (Vidyaranyapura) Vidyaranyapura Sub Division.
Agency	:	Sri. Gopireddy, #03, 1st Cross, 1st main, Ramachandrappa layout, Veeranapalya, Arabic college (P), Bangalore-560045.
Customer Reference	:	BBMP/EE/BTP/WO/55/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	23-07-2018
Sample ID No	:	2018-07-23-07 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	23-07-2018

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	429	429	8.6	91.4	90-100
3	10 mm	2435	2864	57.3	42.7	25-55
4	4.75 mm	1833	4697	93.9	6.1	0-10
5	Pan	303	5000	100	0	–

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Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-07-23-07** **Date: 26-07-2018**

Sample ID No : 2018-07-23-07 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	10.8	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.4	
3	Specific Gravity	2.59	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.55	–
6	Water Absorption(%)	0.23	–
7	Aggregate crushing Value(%)	21.98	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.9	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-07-23-07** **Date: 26-07-2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains at Krishna Temple Roads in Ward No. 09 (Vidyaranyapura) Vidyaranyapura Sub Division.

Agency : Sri. Gopireddy, #03, 1st Cross, 1st main, Ramachandrappa layout, Veeranapalya, Arabic college (P), Bangalore-560045.

Customer's Reference : BBMP/EE/BTP/WO/55/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 23-07-2018

Sample ID No : 2018-07-23-07 /03

Sample Type : Fine Aggregate

Reference to BIS codes : IS 383 : 2016 (Specification for Coarse and fine Aggregates)
IS: 2386 :1963(Part - 1, 3) RA2012
IS 2386 Part 1: Particle Size and Shape
IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption

Date of test : 23-07-2018

Total weight taken : 1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	25	25	2.5	97.5	90-100	90-100	90-100	95-100
3	2.36 mm	127	152	15.2	84.8	60-95	75-100	85-100	95-100
4	1.18 mm	275	427	42.7	57.3	30-70	55-90	75-100	90-100
5	600 micron	137	564	56.4	43.6	15-34	35-59	60-79	80-100
6	300 micron	189	753	75.3	24.7	5-20	8-30	12-40	15-50
7	150 micron	154	907	90.7	9.3	0-10	0-10	0-10	0-15
8	Pan	93	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-07-23-07** **Date: 26-07-2018**

Sample ID No : 2018-07-23-07 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.7	_
2	Specific Gravity	2.54	_
3	Material finer than 75 micron(%)	7.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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TEST REPORT OF PRECAST COVER SLAB

Lab ID : **CP-2018-08-13-02** **Date: 16-08-2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains at Krishna Temple Roads in Ward No. 09 (Vidyaranyapura) Vidyaranyapura Sub Division.

Agency : Sri. Gopireddy, #03, 1st Cross, 1st main, Ramachandrappa layout, Veeranapalya, Arabic college (P), Bangalore-560045.

Customer's Reference : BBMP/EE/BTP/WO/55/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 13-08-2018

Sample ID No : 2018-08-13-02 /05

Sample Type /Size : Precast Cover Slab

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 13/08/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	(kg)	(Sq.mm)	(KN)	(N/mm^2)	(N/mm^2)	(N/mm^2)
1	Cover Slab-1	75.51	100.48	1.116	4477	80.9	18.1	16.8	21.0
2	Cover Slab-2	75.49	100.52	1.122	4475	82.3	18.4	17.1	21.4
3	Cover Slab-3	75.50	100.51	1.118	4476	81.5	18.2	16.9	21.2

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID : **CP-2018-08-14-02** **Date: 18-08-2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains at Krishna Temple Roads in Ward No. 09 (Vidyaranyapura) Vidyaranyapura Sub Division.

Agency : Sri. Gopireddy, #03, 1st Cross, 1st main, Ramachandrappa layout, Veeranapalya, Arabic college (P), Bangalore-560045.

Customer's Reference : BBMP/EE/BTP/WO/55/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 14-08-2018

Sample ID No : 2018-08-14-02 /04

Sample Type /Size : CC Kerb Stone/ 450*165*400mm

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 14/08/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.55	165.85	2.955	7939	154.8	19.5	19.5	24.4
2	B	100.49	165.42	2.915	7930	150.9	19.0	19.0	23.8
3	C	100.44	165.39	2.948	7922	151.8	19.2	19.2	23.9

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TEST REPORT ON PHYSICAL REQUIREMENTS OF SOLID CONCRETE BLOCKS

Lab ID	:	**CP-2018-08-21-01** **Date: 25-08-2018**
Customer	:	Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.
Address	:	Vidyaranyapura Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Drains at Krishna Temple Roads in Ward No. 09 (Vidyaranyapura) Vidyaranyapura Sub Division.
Agency	:	Sri. Gopireddy, #03, 1st Cross, 1st main, Ramachandrappa layout, Veeranapalya, Arabic college (P), Bangalore-560045.
Customer's Reference	:	BBMP/EE/BTP/WO/55/2018-19
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	21-08-2018
Sample ID No	:	2018-08-21-01 /06
Sample Type/Size	:	Solid concrete blocks of size (400X150X200)mm
Reference to BIS codes	:	IS : 2185 (Part 1) : 2005(RA 2010) Concrete Masonry Specification Part 1:Hollow and Solid Concrete Blocks (Dimensions -Annex-B, Clause 9.2 and 10 , Block density Annex -C Clause 9.3 and10, Compressive strength Annex -D Clause 9.4 and 10, Water absorption Annex -E Clause 9.5 and 10)
Date of test	:	22-08-2018

BLOCK DENSITY:

Sl. No.	Measurement of overall Dimensions of Individual Blocks			Overall Volume of the Block in Cubic Centimetres	Weight of Oven Dried Block in Kilograms to the nearest 10 Gram	Block Density in Kg/cum*10^6	Avg.Block Density in (Kg/cum)	As per IS 2185 (Part 1):2005 (RA 2010)
	Length	Breadth	Height					
	mm	mm	mm	(Cm^3)	Kg	Kg/m^3	Kg/m^3	
1	402	151	201	12201	24.750	2028.5	2026.5	Not less than 1800Kg/m^3
2	401	150	201	12090	24.890	2058.7		
3	401	152	203	12373	24.650	1992.2		

WATER ABSORPTION:

Sl. No.	Wet weight after water absorption	Dry weight (Oven dry)	Water Absorption	Avg.Water Absorption	As per IS 2185 (Part 1):2005 (RA 2010)
	kg	kg	%	%	
1	25.79	24.65	4.89	4.25	Shall not be more than 10% by mass
2	25.88	24.80	4.28		
3	25.75	24.74	3.59		

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Lab ID : **CP-2018-08-21-01** **Date: 25-08-2018**

Sample ID No : **2018-08-21-01 /06**

DIMENSION ANALYSIS

Sl.no	Length mm	Breadth mm	Height mm	Requirement as per IS 2185(Part 1):2005
1	402	151	202	Length : ± 5mm Breadth : ± 3mm Height : ± 3mm
2	401	149	203	
3	402	150	201	
4	401	152	202	
5	403	150	201	
6	401	150	202	
7	402	153	201	
8	402	152	203	
9	401	151	201	
10	402	152	203	
11	401	152	201	
12	402	150	202	
13	401	153	201	
14	402	151	203	
15	402	150	202	
16	401	151	201	
17	402	152	202	
18	401	150	201	
19	403	153	202	
20	402	152	202	
Average of 20	**402**	**151**	**202**	

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Vidyaranyapura Sub Division
BBMP, Bangalore - 97

Lab ID : **CP-2018-08-21-01** **Date: 25-08-2018**

Sample ID No : 2018-08-21-01 /06

COMPRESSIVE STRENGTH:

Sl. No.	Size of solid block		Area	Failure Load	Compressive strength	Average Compressive strength
	Length	Breadth				
	mm	mm	(mm^2)	(KN)	N/mm^2	(N/mm^2)
1	402	151	60702	255.9	4.2	4.3
2	401	149	59749	249.7	4.2	
3	402	150	60300	263.7	4.4	
4	401	152	60952	272.7	4.5	
5	403	150	60450	249.8	4.1	
6	401	150	60150	271.7	4.5	
7	402	153	61506	280.6	4.6	
8	402	152	61104	263.8	4.3	

As per IS Requirements (Table 2, Clause 5.1, 5.2 and 9.4)

Compressive strength		
Grade	Minimum average	Minimum Individual units.
C (5.0)	5.00 N/mm^2	4.00 N/mm^2
C (4.0)	4.00 N/mm^2	3.20 N/mm^2

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-08-03-01** **Date: 08/08/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains at Krishna Temple Roads in Ward No. 09 (Vidyaranyapura) Vidyaranyapura Sub Division.

Agency : Sri. Gopireddy, #03, 1st Cross, 1st main, Ramachandrappa layout, Veeranapalya, Arabic college (P), Bangalore-560045.

Customer's Reference : BBMP/EE/BTP/WO/55/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-08-2018

Sample ID No : 2018-08-03-01 /01

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 08/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	01/08/2018	08/08/2018	150.45 X 150.20 X 150.23	22598	8.155	290.0	12.8	12.7
2	PCC	M15	01/08/2018	08/08/2018	149.39 X 149.71 X 151.43	22365	8.535	281.6	12.6	
3	PCC	M15	01/08/2018	08/08/2018	149.61 X 151.82 X 151.37	22713	8.574	285.0	12.5	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-08-03-01** **Date: 29/08/2018**

Customer : Assistant Executive Engineer, Vidyaranyapura Sub Division, BBMP, Bangalore.

Address : Vidyaranyapura Sub Division, BBMP, Bangalore.

Project Name : Improvements to Drains at Krishna Temple Roads in Ward No. 09 (Vidyaranyapura) Vidyaranyapura Sub Division.

Agency : Sri. Gopireddy, #03, 1st Cross, 1st main, Ramachandrappa layout, Veeranapalya, Arabic college (P), Bangalore-560045.

Customer's Reference : BBMP/EE/BTP/WO/55/2018-19

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 03-08-2018

Sample ID No : 2018-08-03-01 /02

Customer ID : PCC

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M15 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 29/08/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	PCC	M15	01/08/2018	29/08/2018	150.61 X 151.48 X 149.80	22816	8.353	408.4	17.9	17.5
2	PCC	M15	01/08/2018	29/08/2018	149.94 X 151.13 X 149.11	22660	8.123	385.5	17.0	
3	PCC	M15	01/08/2018	29/08/2018	149.17 X 150.38 X 150.82	22431	7.970	392.0	17.5	

Note:

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

FOR CIVIL Pro.

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Assistant Executive Engineer
Vidyaranyapura Sub Division
BBMP, Bangalore - 97

CIVIL Pro Sig..... Date..... BANGALORE

****End of Report****

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